



## UNITED STATES DEPARTMENT OF COMMERCE

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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		A	ITORNEY DOCKET NO.
	09/467,25	3 12/20/99	CHITTIPEDDI		S	12980F383USO
_			MMC2/1024	$\neg$	EXAMINER	
	DARBY & DARBY 805 THIRD AVENUE NEW YORK NY 10022			•	ESTRADA, M	
					ART UNIT	PAPER NUMBER
					2823	

DATE MAILED:

10/24/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	A U-sti No	[A-mile-mate)						
	Application No.	Applicant(s)						
Office Action Summary	09/467,253	CHITTIPEDDI ET AL.						
t Cince Action Summary	Examiner	Art Unit						
The MAII ING DATE of this communication and	Michelle Estrada	2823						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri d for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1) Responsive to communication(s) filed on								
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	is action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disp sition of Claims								
4) Claim(s) 1-15 is/are pending in the application.								
4a) Of the above claim(s) <u>16-20</u> is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)☐ Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.								
8)⊠ Claim(s) <u>1-15</u> are subject to restriction and/or €	election requirement.							
Application Papers								
9) The specification is objected to by the Examiner								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Pri rity under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)						
J.S. Patent and Trademark Office								

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## Election/R strictions

Applicant's election of Group I (claims 1-15) in Paper No. 8 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Further restriction is required as follows:

This application contains claims directed to the following patentably distinct species of the claimed invention: a first species comprising forming a semiconductor substrate with a Cu interconnect material, fabricating a Cu bond pad, depositing a Ta layer onto the substrate, patterning and etching the Ta layer, bonding an Al wire with the Ta layer wherein a portion of the Ta layer bonds with the Cu bond pad, and another portion of the Ta layer forms a TaAl<sub>3</sub> compound and a second species wherein a portion of the passivation layer forms a metallurgical bond with the interconnect material.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michelle Estrada whose telephone number is 703-308-

0729. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722

(7724, 3431 and 3432) for regular communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Primary Examiner
Art Unit 2823

MEstrada

October 19, 2001

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